

Form PTO-1449
(Rev. 2-32)U.S. Department of Commerce
Patent & Trademark Office

Atty. Docket No.

A7834

Serial No.

Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)Applicant:
Lester F. LUDWIG, et al.Filing Date:
November 1, 2000Group:
Not Yet Assigned932 U.S. PTO
09/702737

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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
S	3,723,653	3/27/73	Tatsuzawa			
	3,873,771	3/25/75	Kleinerman et al.			
	3,974,337	8/10/76	Tatsuzawa			
	4,005,265	1/25/77	Verhoeckx, et al.			
	4,054,908	10/18/77	Poirier et al.			
	4,210,927	7/1/80	Yumde, et al.			
	4,441,180	4/3/84	Schussler, et al.			
	4,451,705	5/29/84	Burke et al.			
	4,475,193	10/2/84	Brown			
	4,516,156	5/7/85	Fabris, et al.			
	4,529,839	7/16/85	Colton, et al.			
	4,529,840	7/16/85	Colton et al.			
	4,531,024	7/23/85	Colton, et al.			
	4,574,374	3/4/86	Scordo			
	4,645,872	2/4/87	Pressman, et al.			

FOREIGN PATENT DOCUMENTS

Document	Date	Country	Class	Sub-class	Translation Yes/No
0 041 902	12/16/81	EP			
0 190 060	8/6/86	EP			
0 354 370	2/14/90	EP			
35 07 152	8/29/85	DE			
0 403 118	12/19/90	EP			
0 414 222	2/27/91	EP			
0 436 345	7/10/91	EP			
0 453 128	10/23/91	EP			
0 497 022	8/5/92	EP			
0 516 371	12/2/92	EP			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

S	Videomatic Switching: Systems and Services, C. Crawford, F. Milone, D. Zoppellaro, Digital Communications, 1988 International Zurich Seminar.
S	Marskak, Ronni T. "Beyond Mail for Windows - epitomizing the mail-enabled application", Patricia Seybold's Office Computing Report, Sept. 1992 v15 n9. (full text copy from Computer Select 1992 CD).
S	Rangan et al. "Software Architecture for Integration of Video Services in the Etherphone System," IEEE Journal on Selected Area of Communications, v9 n9, Dec. 1991, pp. 1395-1404.
S	ACM Press, Conference on Organizational Computing Systems, SIGOIS Bulletin, Vol. 12, No. 2-3, Nov. 5-8, 1991.
	The American Users Forum (Niu-Forum) Aug 6-9, 1990.

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	4,650,929	3/17/87	Boerger et al.			
	4,653,090	3/24/87	Hayden			
	4,686,698	8/11/87	Tompkins et al.			
	4,710,917	12/1/87	Tompkins, et al.			
	4,716,585	12/29/87	Tompkins et al.			
	4,796,293	1/3/89	Blinken et al.			
	4,817,018	3/28/89	Cree et al.			
	4,837,798	6/6/89	Cohen, et al.			
	4,847,829	7/11/89	Tompkins et al.			
	4,888,795	12/19/89	Ando et al.			
	4,922,523	5/1/90	Hashimoto			
	4,931,872	6/5/90	Stoddard et al.			
	4,953,159	8/28/90	Hayden et al.			
	4,961,211	10/2/90	Tsugane, et al.			
	4,965,819	10/23/90	Kannes			

FOREIGN PATENT DOCUMENTS

Document	Date	Country	Class	Sub-class	Translation Yes/No
0 523 618	1/20/93	EP			
0 535 601	4/7/93	EP			
0 523 626	1/20/93	EP			
0 548 597	6/30/93	EP			
0 561 381	9/22/93	EP			
0 604 053	6/29/94	EP			
WO 94/24803	10/27/94	PCT			
WO 92/21211	11/26/92	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Bellcore News, "IMAL Makes Media Merging Magic," 5(20), Nov. 9, 1988.
	Frontiers in computer communications technology, Sigcom '87 Workshop (Aug. 11-13, 1987)
	Unix 4 th Berkeley Release 1991 man pages for 'login,' 'htmp,' 'talk,' and 'who.' Online Internet: http://www.de.freebds.org .
	Statement by Attorney for Applicants-Describing Product Development.
	AHUJA et al., "Coordination and Control of Multimedia Conferencing," IEEE Communication Magazine, 30(5): 38-42, May 1992.
	AHUJA et al., "Networking Requirements of the Rapport Multimedia Conferencing System," INFOCOM '88, IEEE, pp. 746-751, 1988.
	BISWAS et al., "Distributed Scheduling of Meetings: A Case Study in Prototyping Distributed Application," System Integration, 1992 2 nd International Conference.

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P. DINT

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2/4/02

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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
<i>D</i>	4,977,520	12/11/90	McGauhey et al.			
	4,987,492	1/22/91	Stults, et al.			
	4,995,071	2/19/91	Weber, et al.			
	4,998,243	3/5/91	Kao			
	5,003,532	3/26/91	Ashida, et al.			
	5,010,399	4/23/91	Goodman, et al.			
	5,014,267	5/7/91	Tompkins et al.			
	5,027,400	6/25/91	Baji, et al.			
	5,042,062	8/20/91	Lee, et al.			
	5,056,136	10/8/91	Smith			
	5,072,442	12/10/91	Todd			
	5,073,926	12/17/91	Suzuki et al.			
	5,099,510	3/24/92	Blinken, Jr., et al.			
<i>AS</i>	5,130,399	7/14/92	Ikeno et al.			
	5,130,793	7/14/92	Bordry, et al.			

FOREIGN PATENT DOCUMENTS

Document	Date	Country	Class	Sub-class	Translation Yes/No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>AS</i>	COHEN et al., "Audio Windows: User Interface for Manipulating Virtual Acoustic Environments," pp. 479-480.
	COHEN et al., "Audio Windows for Binaural Telecommunication," EIC, Tokyo (10/91)
<i>AS</i>	COHEN et al., Design and Control of Shared Conferencing Environments for Audio Telecommunication," Proceedings of the Second Int'l Symposium on Measurement and Control Robotics (ISMCR '92), Tsukuba Science City, Japan, (November 15-19, 1992), pp. 405-412.
<i>AS</i>	COHEN et al., "Exocentric Control of Audio Imaging in Binaural Telecommunication," IEICE Trans. Fundamentals, Vol. E75-A, No. 2, (February 1992).
<i>AS</i>	COHEN et al., "Multidimensional Audio Window Management," Int'l Journal of Man-Machine Studie, Vol. 34:319-336 (1991).
<i>AS</i>	COHEN et al., "Multidimensional Audio Windows: Conference, Concerts and Cocktails," Human Factors Society Meeting, SF, CA, pp. 1-15, June 12, 1991.
<i>AS</i>	ENSOR et al., "The Rapport Multimedia Conferencing System - Software Overview," Computer Workstation Conference, IEEE, pp. 52-58, 1988.
<i>AS</i>	GOPAL et al., "Directories of Networks with Causally Connected Users," IEEE, pp. 1060-1064, 1988.
<i>AS</i>	HORN et al., "An ISDN Multimedia Conference Bridge," TENCON '90 - 1990 IEEE Region 10 Conference on Computer and Communication, pp. 853-856, 1990.

EXAMINER:

D. DINA

DATE CONSIDERED:

2/4/92

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U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
		5,130,801	7/14/92	Yamaguchi			
		5,155,761	10/13/92	Hammond			
		5,157,491	10/20/92	Kassatly			
		5,170,427	12/8/92	Guichard, et al.			
		5,195,086	3/16/93	Baumgartner et al.	345	329	
		5,195,087	3/16/93	Bennett et al.			
		5,200,989	4/6/93	Milone			
		5,202,828	4/93	Vertelney et al.	345	326	
		5,202,957	4/13/93	Serrao			
		5,218,627	6/8/93	Corey, et al.			
		5,224,094	6/29/93	Maher et al.			
		5,231,492	7/27/93	Dangi et al.			
		5,239,466	8/24/93	Morgan et al.			
		5,253,362	10/12/93	Nolan et al.			
		5,260,941	11/9/93	Wilder et al.			
FOREIGN PATENT DOCUMENTS							
		Document	Date	Country	Class	Sub-class	Translation Yes/No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		KAMEL, "An Integrated Approach to Share Synchronous Groupware Workspaces," IEEE 1993.					
		KENDALL et al., "Simulating the Cue of Spatial Hearing in Natural Environments," Northwestern University, Evanston, IL 60201.					
		KLEIN, Telekommunikation von Angesichtzu Angesicht 2323 Telcom Report 9 (1986) Sept./Okt., No. 5, Erlangen, W. Germany.					
		KOBAYASHI et al., "Development and Trial Operation of Video Teleconference System," IEEE Globecom, pp. 2060-2063, 1999.					
		LAKE et al., "A Network Environment for Studying Multimedia Network Architecture and Control," (1989 Globecom).					
		LANTZ, An Experiment in Integrated Multimedia Conferencing, Department of Computer Science, Stanford University, Stanford, CA 94305, Dec. 1986.					
		LANTZ et al., Collaboration Technology Research at Olivetti Search California, August 1989.					
		LAUWERS et al., Replicated Architecture for Shared Window Systems: A Critique, (Olivetti Research California) Version of April 1990.					
		LAUWERS et al., Collaboration Awareness in Support of Collaboration Transparency: Requirements for the Next Generation of Shared Windows Systems, (Olivetti Research California) Version of April 1989.					
		LEUNG et al., Optimum Connection Paths for a Class of Videoconferences, Department of Information Engineering, the Chinese University of Hong Kong, Shatin, Hong Kong.					
EXAMINER: D. Ditt				DATE CONSIDERED: 1/4/02			
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		5,283,637	2/1/94	Goolcharan			
		5,303,343	4/12/94	Ohya et al.			
		5,315,633	5/24/94	Champa			
		5,319,795	6/7/94	Hamabe et al.			
		5,333,133	7/26/94	Andrews et al.			
		5,333,299	7/26/94	Kovai et al.			
		5,335,321	8/2/94	Harney et al.			
		5,345,258	9/6/94	Matsubara et al.			
		5,351,276	9/27/94	Doll Jr. et al.			
		5,353,398	10/4/94	Kitahara et al.			
		5,363,507	11/8/94	Nakayama et al.			
		5,365,265	11/15/94	Shibata et al.			
		5,367,629	11/22/94	Chu et al.			
		5,373,549	12/13/94	Bales et al.			
		5,374,952	12/20/94	Flohr			
FOREIGN PATENT DOCUMENTS							
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		MAENO et al., Distributed Desktop Conferencing System (MERMAID) Based on Group Communicatoin Architecture, The Transactions of the Institute of Electronics, Information and Comm. Engineers E74 (1991) Sept., No. 9, Tokyo, JP					
		MARTENS, "Principal Components Analysis and Resynthesis of Spectral Cues to Perceived Directoin," Proceedings of the 1987 Int'l Computer Music Conference, Northwestern University, Evanston, IL 60201					
		MASAKI et al., "A Desktop Teleconferencing Terminal Based on B-ISDN: PMTC," NTT Review, 4(4) :81-85, 1992					
		NG et al., Systems Integration '90, (April 23-26, 1990).					
		NUNOKAWA et al., "Teleconferencing Using Stereo Voice and Electronic OHP," IEEE, 1988.					
		OHMORI et al., "Distributed Cooperative Control for Sharing Applications Based on Multipaty and Multimedia Desktop Conferencing System," IEEE, 1992.					
		PATE, "Trends in Multimedia Applications and the Network Models to Support Them," Globecom's 90: 1990.					
		PERKINS, "Spider: An investigation in collaborative technologies and their effects on network performance".					
	RAMANATHAN et al., Optimal Communication Architectures for Multimedia Conferencing in Distributed Systems, Multimedia Laboratory Dept. of Computer Science and Engineering, University of San Deigo, La Jolla, CA.						
EXAMINER: <u>D. DINI</u>				DATE CONSIDERED: <u>2/3/95</u>			
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